200400118

THE UNITED SHAVES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Texas Agricultural Experiment Station

THE PROPERTY OF THE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE WAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID GOPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE EXTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN APPUBLIC REPOSITORY AS PROVIDED BY LAW, THE HT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RETING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1).

BENTGRASS, CRÉEPING

'962'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hunt Enricty Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of March, in the year two thousand and five.

Attest:

Commissioner

Plant Variety Protection Office

Secretary of Agricult

REPRODUCE LOCALLY. Include form number and d	ate on all reproductions	Form Approved - OMB No. 0581-0055								
AGRICULTURAL I	NT OF AGRICULTURE MARKETING SERVICE PLANT VARIETY PROTECTION OFFICE	the Paperwork Reduction Act (PRA) o	f 1995.	e with the Privacy Act of 1974 (5 U.S.C. 552a) and						
	RIETY PROTECTION CERTIFICATE Section burden statement on reverse)	Application is required in order to deter (7 U.S.C. 2421). Information is held co	onfidential	lant variety protection certificate is to be issued until certificate is issued (7 U.S.C. 2426).						
1, NAME OF OWNER		TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VAI	RIETY NAME						
Texas Agricultural Experiment Station	n	Syn 96-2, 96-2 Pick Syn 96-2	962							
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Code, and Country)	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY						
Dr. Robert E. Whitson, Deputy Dire	ector	(979) 845-4747	PVPO	NUMBER						
Office of the Director, Texas Agric	ultural Experiment Station	6. FAX (include area code)	ค							
2147 TAMU College Station, TX 77843-2147		(979) 458-4765	2	00400118						
conoge oration, 171 / 70 to 21 /		(979) 438-4703	FILING	BOATE						
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso		9. DATE OF INCORPORATION		1-25-2004						
State of Texas Research Agency			~							
10. NAME AND ADDRESS OF OWNER REPRESE	J ENTATIVE(S) TO SERVE IN/THIS APPLICATION. (First	person listed will receive all papers)	F E	FILING AND EXAMINATION FEES:						
Janie Hurley, Technology Licensi	ing Manager, Agriculture/Life Sciences		Ē	\$ 3652.00						
Technology Licensing Office	/		R	DATE 2125/04 CERTIFICATION FEE:						
The Texas A&M University Syste	em		C	CERTIFICATION FEE:						
3369 TAMU College Station, TX 77843-3369			E I V	\$ 432.00						
			ε	DATE						
	Tabana	40 - 1411	D	3 4 05						
11. TELEPHONE (Include area code) (979) 847-8682	12. FAX (Include area code) (979) 845-1402	jhurley@tamu.edu								
14. CROP KIND (Common Name)	16. FAMILY NAME (Botanical)	18. DOES THE VARIETY CONTA	AIN ANY T	RANSGENES? (OPTIONAL)						
Creeping Bentgrass	Gramineae	☐ YES ☑ NO		, ,						
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATION HYBRI			USDA-APHIS REFERENCE NUMBER FOR THE ATÉ THE GENETICALLY MODIFIED PLANT FOR						
Agrostis stolonifera subsp. palustris	☐YES ☑ NO	COMMERICALIZATION.	DEREGUL	ATE THE GENETICALLY MODIFIED FLANT FOR						
19. CHECK APPROPRIATE BOX FOR EACH ATTA	ACHMENT SUBMITTED	20. DOES THE OWNER SPECIF	Y THAT S	EED OF THIS VARIETY BE SOLD AS A CLASS						
(Follow instructions on reverse)		OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) VES (If "yes", answer items 21 and 22 below) NO (If "no", go to item 23)								
a. Exhibit A. Origin and Breeding History	of the Variety	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO								
b. Exhibit B. Statement of Distinctness		NUMBER OF CLASSES?								
c. Exhibit C. Objective Description of Var		✓ YES ☐ NO		The second of th						
d. Exhibit D. Additional Description of the				NDATION I REGISTERED I CERTIFIED EED OF THIS VARIETY BE LIMITED AS TO						
e. Exhibit E. Statement of the Basis of the		NUMBER OF GENERATION	IS?							
verification that tissue culture will be de	ed seeds or, for tuber propagated varieties, eposited and maintained in an approved public	✓ YES NO								
repository)	and a such to be STanna and the Alleited	IF YES, SPECIFY THE NUMI	BER 1,2,3,	etc. FOR EACH CLASS.						
g. Filing and Examination Fee (\$3,652), n States" (Mail to the Plant Variety Protect	nade payable to "Treasurer of the United ction Office)		EGISTERE							
23. HAS THE VARIETY (INCLUDING ANY HARVES	STED MATERIALLOR A HYBRID PRODUCED	·		lease use the space indicated on the reverse.) IT OF THE VARIETY PROTECTED BY						
	D OF, TRANSFERRED, OR USED IN THE U.S. OR			PLANT BREEDER'S RIGHT OR PATENT)?						
✓ YES □ NO		YES NO								
	FIRST SALE, DISPOSITION, TRANSFER, OR USE ANCES. (Please use space indicated on reverse.)	IF YES, PLEASE GIVE COUN REFERENCE NUMBER. (Ple		E OF FILING OR ISSUANCE AND ASSIGNED nace indicated on reverse.)						
	sic seed of the variety has been furnished with application be deposited in a public repository and maintained for the		ccordance	with such regulations as may be applicable, or for						
· · · · ·	this sexually reproduced or tuber propagated plant variet		stinct, unifo	orm, and stable as required in Section 42, and is						
entitled to protection under the provisions of Se		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
wner(s) is (are) informed that false representa	ation herein can jeopardize protection and result in penalt	ties.		·						
SIGNATURE OF OWNER	(-	SIGNATURE OF OWNER								
SAME (Please phot ox (pe)	-toe	NAME (Please print or type)								
Robert E. Whitson	-									
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE DATE								
Deputy Director,,TAES	2-13-2004									
·										

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.) Seed of '962' was first sold for commercial use on August 12, 2003, in the United States by Pickseed West Inc., under rights provided under a license agreement with the Texas Agricultural Experiment Station.
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit A (Revised)

Origin and Breeding History of "962 Creeping Bentgrass"

'962' Creeping Bentgrass (Agrostis stolonifera subsp. palustris Huds.) identified and tested as Syn96-2 during the developmental process is a 13 clone polycross of parental lines selected for a combination of traits centered on fine leaf texture and increased turf density and general turf performance for bentgrass putting surfaces in the southern regions of the transition zone for turfgrasses. The parental clones trace to an introduced nursery of 29 variant bentgrass clones with a diverse origin ranging from France to Michigan to Wisconsin, Wisconsin and Texas, and intercrossed in various combinations generating 14 unique multi-clone combinations as determined by plant type, texture color and niching during flowering cycle. Field nursery of over 7800 individuals were planted as maternal line rows and evaluated under cultural conditions similar to a golf course putting green. Of the 14 polycross combinations, individual plants were selected from seven as follows: Four parents were selected from three maternal lines of Population A (an eight [8] clone synthetic), one each from population B (three [3] clone synthetic), C (ten [10] clone synthetic), and I (seven [7] clone synthetic). Two parents were selected from one maternal line of population D (three [3] clone synthetic), two parents were selected from two maternal lines of E (ten [10] clone synthetic) and two parents were selected from one maternal line of L (five [5] clone synthetic). See Tables 1 and 2 for further details on the polycross populations and parental combinations used in the development of '962.'

The progeny populations were subjected to prolonged high temperature/high moisture stress in a soil heat bench screening at Texas A&M Dallas from 1989 to 1990. Approximately 225 individual progeny were selected as survivors of the heat bench screening and transplanted to replicate field trials under putting green conditions involving close mowing and intense cultural practices. Field plots were evaluated specifically for density, texture and color in Texas. Maternal clones were increased and transplanted to a four replicated space plant nursery in Brooks OR in 1996 and allowed to interpollinate in an isolation block. Seed was harvested in 1997 and bulked by maternal clone. Equal quantities of seed from each maternal clone were combined and designated as breeder seed (Generation 1). The breeder seed was used to plant a 5 acre field for seed increase and is designated as experimental Foundation seed and was harvested in 1998 (Generation 2). Less than 5% rouging was imposed prior to pollination to eliminate any undesirable plant types. The foundation (seed stock) class of seed produced in 1998 provided the seed for inclusion in the 1998 NTEP trials. Foundation class will be used to produce Registered or Certified Class (Generation 3). Production from foundation fields will be limited to 3 years, after which the fields may be downgraded to Certified Class for 4 years. Production from registered fields will be limited to 4 years after which they may be downgraded to Certified for an additional 3 years. Production from Certified production fields will be limited to no more than 7 years from their date of planting with either Registered or Foundation seed stock.

'962' Creeping Bentgrass is a uniform and stable variety. The stability and uniformity as a variety is indicated in the three generations it has been observed from breeder seed to foundation production to certified production. '962' has displayed variants at a frequency of slightly less than 2%. These variants that may be found include plants with a more coarse leaf texture, but are identical to the variety in all other characteristics as described in Exhibit C (Objective Description of Variety). These variants are commercially acceptable and predictable.

Table 1. The specific polycross populations and parental combinations use in their development are identified. Number in red identify specific populations from which parental lines for the Syn96-2 series were selected.¹

Parental						Synth	etic Pol	ycross	Populat	tions 2					
Clone #		To	Τα	D	l re	F	Ta	Н	I	J	K	TL	M	l NT	T
	A	В	С		Е	F	G	П	1	J	K		IVI	N	
2784	-	1		108		1		70	1			108		1	
2794	<u> </u>	3	ļ	 	1			72	-					1	-
2798		72			1					ļ	-		 	<u> </u>	
2799	ļ	29			1.00		72		1.	1					00.1
2831					108	<u> </u>		72	ļ			39			92-1
2833	ļ		108		108	72						1		<u> </u>	92-5
2845		ļ			108	72				108	72	ļ		ļ	92-5
2852			108	108		<u> </u>						108			92-4
2856		108	108		108										
2859		<u> </u>		108				72				72		144	92-2
2860							72	72							
2915			108		72	72						108			92-4
2916			108		108	72								60	92-5
															92-2
								l]		92-4
2922		108	108			72								72	92.5
				ŀ]		92.2
	Ì														92-4
3106	108					72		72	56				72		92-5
3120					108	72							72		
3141		1	108				72								
3153	ĺ		108		108	72									92-1
															92-4
3165		108				"	72								
3171		108													
3225	1	108	108		· · · · · · · · · · · · · · · · · · ·		72				51				92-4
3250	108							72			72				92-1
3271	108	<u> </u>					ļ		72				72	-	
3276	108	1			<u> </u>			1	72				72	72	92-2
3283	108				108			72	72	 	+		72	T	
3285	108	1		1				72	72	 			72	1	
3293	85	108				72		 	72			† · · · ·	72	<u> </u>	92-3
	05	100				'-			'-				'-		92-5
3307		 	108		108	72	1			 	—	1	54	 	92-1
5507	1		100		100	, 2		1					.		92-4
															92-5
9999	108	+						 	72			1		 -	
#P	8	9	110	3	10	10	5	8	7	1	3	5	8	4	
#P Clones	"	•	110		10	10	'	°	'	*	,	'	"	-	
	841	752	1080	324	1044	720	360	576	488	108	197	435	558	348	7831
progeny#	1 041	132	1000	324	1044	1/20	300	13/0	400	100	17/	433	ا مدد ا	1240	1001

¹This table is a reproduction of Table 4, from the 6th Annual USGA Bentgrass Report-1990, submitted by M. C. Engelke, TAMU, Dallas, TX.

²Individual plants were selected from those populations marked in red which constitutes the parental materials for the Syn96-2.

Table 2. Identity key for individual clones constituting the parentage for 962 creeping bentgrass.

TAES 98	TAES	Polycross	Narrative
# system	Parental	Population	
	Identity		
4292	3285	A	K15-6-11 – Kaeraer collection 1986 France
4293	2859	D	Brook Hollow collection
4294	2859	D	Brook Hollow collection
4295	3307	Е	Kaeraer collection 1986 France
4296	2915	L	Fairway #8 Walnut C.C. Michigan
4297	2915	С	Fairway #8 Walnut C.C. Michigan
4298	2856	E	Brook Hollow collection
4299	3106	A	Kevin McVeigh, Brownsville, OR
4300	3285	A	Kaeraer collection 1986 France
4301	2915	L	Fairway #8 Walnut C.C. Michigan
4302	3250	Α	Kaeraer collection 1986 France (Century Creeping
			Bent)
4303	3293	I	Kaeraer collection 1986 France (Imperial Creeping
			Bent)
4304	2798	В	Brook Hollow #9

Parental Origin by clone:

TAES 3285 - aka TAES 4292 and K15-6-11 from Nimes Campagne G. C. France April 1986

TAES 2859 - aka TAES 4293 collected from Brook Hollow C.C. Dallas Texas July 1984

TAES 2859 - aka TAES 4294 collected from Brook Hollow C.C. Dallas Texas July 1984

TAES 3307 - aka TAES 4295 and U6 collected from Firenze G. C. France, April 1986

TAES 2915 - aka TAES4296 collected from Fairway#8 Walnut CC Michigan July 1984

TAES 2915 - aka TAES4297 collected from Fairway#8 Walnut CC Michigan July 1984

TAES 2856 - aka TAES 4298 collected from Brook Hollow C.C. Dallas Texas July 1984

TAES 3106 - aka TAES 4299 obtained from Kevin McVeigh, Brownsville, OR July 1986

TAES 3285 - aka TAES 4300 and K15-6-11 from Nimes Campagne G. C. France April 1986

TAES 2915 - aka TAES 4301 collected from Fairway#8 Walnut CC Michigan July 1984

TAES 3250 - TAES 4302 and K15-2 from Nimes Campagne G. C. France April 1986 (Century Creeping Bent)

TAES 3293 – aka TAES 4303 and K15-6-29 from Nimes Campagne G. C. France, April 1986 (Imperial CB)

TAES 2798 - aka TAES 4304 collected from Brook Hollow C.C. #9 green Dallas Texas July 1984

Exhibit B (Revised)

Statement of Distinctness of "962 Creeping Bentgrass"

'962' Creeping Bentgrass (Agrostis stolonifera subsp. palustris Huds.) was developed by the Texas Agricultural Experiment Station. '962' is an improved cool-season turfgrass, having exceptional performance characteristics as a quality turf on golf course greens. The turf selection is dense - fine textured and provides improved cultural performance in the southern transition zones of the United States. '962' is noted for superior leaf texture characters and the ability to maintain a good genetic color during stressful environmental conditions, excellent recuperative ability and adaptability to a wide range of bentgrass growing zones.

'962' is most similar to 'Crenshaw'; however, '962' can be distinguished from 'Crenshaw' by the following characteristics:

- 1. The lemma color of '962' is silvery whereas 'Crenshaw' is buff.
- 2. The lemma surface of '962' is glossy and 'Crenshaw is dull.

'962' resembles 'Penncross' with many morphological traits; however, '962' can be distinguished from 'Penncross' by the following characteristics:

- 1. '962' was more susceptible to Dollar Spot than 'Penncross' in Kansas and Oklahoma locations, for years 1999 and 2000 (NTEP 00-1, 1999 data Table 26, NTEP 01-2, 2000 data Table 28).
- 2. '962' has a finer leaf texture than 'Penncross' in Iowa, Oklahoma, and New Jersey locations, shown in years 2001 and 2002 (NTEP 02-3, 2001 data, Table 9, NTEP 03-5, 2002 data, Table 9).

NTEP 00-1, 1999 data TABLE 26. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN 1/
1999 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	KS1	MO1	OK1	RI1	RI2	MEAN
PENNCROSS	8.7	7.3	9.0	9.0	7.7	8.3
PENNLINKS	8.3	8.0	9.0	9.0	6.7	8.2
PENN A-1	8.3	8.0	8.7	8.7	7.0	8.1
L-93	8.7	7.7	9.0	8.0	7.0	8.1
SR 7200	6.7	7.3	8.7	9.0	8.7	8.1
PENN G-1	8.3	8.0	9.0	8.7	5.3	7.9
PST-A2E	7.0	8.7	9.0	8.3	6.3	7.9
PENN A-2	8.0	7.0	9.0	8.7	6.3	7.8
BAVARIA	7.7	4.0	9.0	9.0	9.0	7.7
PICK CB 13-94	6.7	8.0	8.7	8.3	7.0	7.7
PICK MVB	6.7	6.3	9.0	9.0	7.0	7.6
PENN G-6	8.0	7.7	9.0	7.7	5.3	7.5
SRX 1BPAA	7.3	7.0	9.0	8.7	4.3	7.3
ISI AP-5	7.0	7.0	8.7	7.3	6.3	7.3
PENN A-4	7.0	7.3	8.3	7.3	5.7	7.1
SR 1119	6.7	7.3	9.0	8.0	4.0	7.0
SRX 1120	6.7	7.7	8.7	8.3	3.7	7.0
BAR AS 8FUS2	7.0	7.3	8.7	6.7	5.0	6.9
ABT-CRB-1	6.3	7.0	8.3	7.7	5.0	6.9
SRX 1NJH	7.0	7.3	8.7	7.7	3.3	6.8
SYN 96-1	5.0	7.3	7.7	7.7	6.0	6.7
IMPERIAL	5.3	6.0	8.0	7.0	6.7	6.6
BACKSPIN	5.7	6.3	8.7	6.3	4.3	6.3
SYN 96-3	4.3	7.3	8.0	6.3	5.3	6.3
SYN 96-2	4.0	7.0	6.0	7.7	6.3	6.2
PROVIDENCE	5.7	7.3	9.0	6.3	2.3	6.1
BAR CB 8US3	4.3	7.0	8.3	4.3	4.0	5.6
CENTURY	5.0	7.0	6.3	5.3	3.0	5.3
CRENSHAW	4.7	6.7	6.7	4.3	3.0	5.1
LSD VALUE	1.0	1.6	0.9	1.7	2.0	0.7
C.V. (%)	9.0	13.8	6.8	13.8	22.3	13.1

^{1/} TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

 $^{2/\,}$ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

Ntep 01-2, 2000 data TABLE 28. DOLLA

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN 1/
2000 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	IL1	KS1	ME1	MO1	NJ1	OK1	RI1	RIZ	VA1	WII	MEAN
BAVARIA	7.3	•		•	•		•		•	•	
\circ	8.0	٠		•	•			•	•		
VESPER (PICK MVB)	7.3	•			•					•	
L-93	6.7	•		•	٠	•		•		•	
PENN A-2	4.3	•		•	•			٠		•	
PENNCROSS	3.7		•	•							
PST-A2E	4.0	•		•						•	
PENN A-1	5.3	•			٠	•		•	•	•	•
SRX 1BPAA	3.7	5.7	7.0	7.7	8.3	8.0	8.7	2.3	8.0	9.0	8.9
PENNLINKS	3.0	٠		•						•	
PENN G-1	4.7	٠	•	•	٠				•	٠	•
SRX 1NJH	4.0	•		•	•		•	•	•	•	
PENN G-6	4.0	•		•	•			•	•	•	•
ISI AP-5	4.0			•					•		
PENN A-4	5.0			•				•	•	•	
	3.7	٠		•	•		•	•		•	•
AR A	4.0	•	. •	•	•		•	•	•	•	
BRIGHTON (SRX 1120)	4.7	•			•					•	
ABT-CRB-1	3.0	•			•			•	٠	•	•
IMPERIAL	ж. Э	٠	•	•	•	•	•	•	٠	•	•
SR 1119	3.7	•	•	•	٠	•	•	•	•	•	
SXN 96~1	3.3	•					•		•		
	4.7	•		•	•	•		•	٠	•	
	3.3	٠	•	•	•	•		•	•	•	•
SXN 96-3	3.0	•	•	٠	•	•		•	•	•	•
BACKSPIN	3.3		•	•	•	•			•		
BAR CB 8US3	3.7	•		•	•	•		•	٠	•	•
CENTURY	3.3	•		•	•			•	•	•	•
CRENSHAW	2.3	•	•	•	•	•		•	•	•	•
LSD VALUE	1.1	1.5	2.1	1.9	1.6	•		•		•	
C.V. (%)	16.4	•	•	•	14.3	8.7	5.2	13.1	18.7	16.3	15.7

^{1/} TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN. Exhibit B - Page 3 of 6

NTEP 02-3, TABLE 17. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN 1/ 2001 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME1	MO1	NJ1	MEAN
SR 7200	9.0	8.7	8.3	8.7
PENNCROSS	8.7	8.3	8.3	8.4
ISI AP-5	8.7	8.0	8.3	8.3
SRX 1NJH	8.3		8.0	8.2
PST-A2E	9.0	7.0	8.7	8.2
PENNLINKS	8.3		8.0	8.1
L-93	8.7	6.7	8.7	8.0
BENGAL (BAR AS 8FUS2)	9.0	8.0	6.7	7.9
PENN A-4	8.0	7.7	8.0	7.9
PENN A-1	8.7	6.7	8.3	7.9
PENN G-6	9.0	7.0	7.3	7.8
ABT-CRB-1	8.0	8.0	7.0	
PENN A-2	8.7	5.3	9.0	7.7
SRX 1BPAA	9.0	7.3	6.3	7.6
BAVARIA	7.0	6.7	8.7	7.4
IMPERIAL	8.3	8.3	5.7	7.4
SYN 96-3	8.3	8.0	5.7	7.3
VESPER (PICK MVB)	8.7	7.3	6.0	7.3
PROVIDENCE	7.0	8.0		
SR 1119	8.3	6.7	6.7	7.2
PICK CB 13-94	7.7	6.3	7.0	7.0
PENN G-1	7.7	6.7	5.7	6.7
SYN 96-1	8.0	6.0	5.7	6.6
SYN 96-2	8.3	6.7	4.7	6.6
BACKSPIN	7.7	7.0	4.7	6.4
CRENSHAW	7.7	6.0	5.0	6.2
CENTURY	9.0	5.3	4.3	6.2
BAR CB 8US3	8.3	4.7	5.0	6.0
BRIGHTON (SRX 1120)	7.3	4.7	6.0	6.0
LSD VALUE	1.6	3.2	1.9	1.3
C.V. (%)	12.1	28.0	17.0	19.5

^{1/} TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

 $[\]ensuremath{\text{2}/}$ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

NTEP 02-3 2001 data - TABLE 9.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN 1/ 2001 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

MEAN	•	•	•	•	•		•				•	•		•	•	•	•		•	•	6.5			•	•	٠		٠	٠		10.5
TX1																				•	7.0			•	•			•			9.9
PA1		•		•	•			•				•	•			•	•			•	6.7		•	•	•	•	•	•			9.2
OK1	•		•	•	•	•		•	•	•		•		•		•	•			•	7.0		•	•	٠	•	•	•	•		3.6
NY1			•			•								•					•	•	6.7	•		•	•			•	•	•	9 .5
NJ1	•	•		•	•	•	•	•	•	•	٠	٠	•			•	•	•	•	٠	5.3	•	٠	•	•	•	•	•	•	•	17.1
MT.1	•			•				٠	•			•	•				•	•	•	•	6.7			•				•			15.2
MII	7.3	٠		٠	•	•	•	•	٠	•	٠	٠	•			•	•	•	•	•	6.7	•	٠	•	•	•	•	•	•	6.0	•
ME1	8.7	•	•		•		•		٠	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.2	•
KS1	7.3	•	•	٠	•		•	•	•			•	•		٠	•	•	•		٠	•	•	•	•	•	•		•	•	1.1	•
IA1	7.7	7.3	7.0	7.3	8.0	5.3	7.0	7.7	7.7	8.0	7.0	8.0	6.7	6.3	7.0	6.3	7.7	6.3	7.3	0.9	7.0	6.7	0.9	6.3	5.7	5.7	6.0	5.0	5.7	0.8	7.6
AZ1	٠	6.5	•	8.0	6.5	7.5	8.0	8.7	7.0	6.7	•	•	7.3	•	٠	7.3	٠	٠	•	7.3	7.7	•	•	6.3	•	7.0	6.7	7.3	6.7	٦.6	12.5
AL1	3) 8.3	e 8	7.3	•	5.7	7.7	6.3	6.7	4.3	•	7.3	0.9	٠	•	5.0	•	5.7	5.7	4.7	5.7	4.7	٠	5.3	4.7	6.0	6.0	0)2.0	5.0	4.3	1.3	13.3
NAME	VESPER (PICK MVB)			PENN A-1	SYN 96-3	BAVARIA	PST-A2E	PENN A-4		SYN 96-1	PENN A-2	CENTURY		BAR CB 8US3	ABT-CRB-1	ISI AP-5	L-93	PENN G-6	IMPERIAL	SR 1119	BACKSPIN	CRENSHAW	PROVIDENCE	SRX 1NJH	F-2.	PICK CB 13-94	BRIGHTON (SRX1120)	PENNLINKS	PENNCROSS	LSD VALUE	C.V. (%)

^{1/} TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05). 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

NTEP 03-5, 2002 data TABLE 9.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN 1/

2002 DATA LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

2/

NAME	AL1	AZ1	IA1	MII	NJ1	NY1	OK1	TX1	MEAN
PENN A-1	•	•	•	•	•			٠	
PENN G-1	•	•		•	•			•	•
PENN A-4	•	•	•	•		•	•	•	•
VESPER (PICK MVB)	8.3	6.3	7.3	7.7	0.6	7.3	7.3	7.3	7.6
IMPERIAL	•	٠			•	•	•		
SR 7200	•	•		•		•	•	•	
PENN A-2	٠	•	•	•	•	•	•	•	•
SYN 96-1	•	•	•	٠	•	•		•	
SYN 96-3	•			•	•	•	•	•	
PST-A2E	•			•	•	٠		•	
ABT-CRB-1	٠	•	•	•	•	•	•	•	
SYN 96-2	•	•	•	•	•	•	•		•
ISI AP-5	•		•	•	•	•	•	•	
BAVARIA	٠	•	•		•	•	•	•	
	•			•	•	•	•	•	
BENGAL (BAR AS 8FUS2)	•	٠	•	•	•	•	•	•	
BAR CB 8US3	•	•		•		•		•	
CENTURY	٠	•	•	•	•	•	•		•
SR 1119	٠	•	•	•	•	•		•	
PROVIDENCE	•	•		•	•	•	•	•	
CRENSHAW	•	•		•		•			
L-93	٠	•	•	•	•	٠	•	•	
SRX 1BPAA	•	•	•	•	•	٠	•	•	
SRX 1NJH	•		•	•		٠	•	•	
BRIGHTON (SRX 1120)	•	•			•	•			
BACKSPIN	٠	•		•	•	•		•	٠
PICK CB 13-94	٠	•	•	•	•	•	•	•	6.5
PENNCROSS	•	•	•	•	•	٠	•	•	
PENNLINKS	•	•	ب د.	7.3		•	•	•	
LSD VALUE	1.4	1.0	1.0	6.0	1.5	0.8	0.8	0.7	0.4
C.V. (%)	12.8	•	•	٠	•	•	•	•	•

ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 1/TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER

0.05). 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

	ork Reduction Act of 1995, an agency may not conduc	or sponsor, and a person is no complete this information colle ig the collection of information	t required to respond to a collect	ion of information unless it displa minutes per response, including th	Form Approves - OMB No. 0591-0655 ys a valid OMB control number. The valid OMB control to time for reviewing instructions, searching existing data
at 202-720-2600 (vôice a	Agriculture (USDA) prohibits discrimination in all us a last to a second with disabilities of TDD). To file a complaint of discrimination, write ISDA is an equal opportunity provider and employer.	USDA Diseases Office of Cive	pasis of race, color, national origination of program il Rights, Room 326-W, Whitten	n, gender, religion, age, disability information (Braille, large print, Building, 14th and Independence	, political beliefs, sexual orientation, and marital or family audiotape, etc.) should contact the USDA's TARGET Center a Avenue, SW, Washington, DC 202509410 or call (202) 72
	S	AGRICULTURA SCIENCE AND T PLANT VARIET	ENT OF AGRICU L MARKETING S ECHNOLOGY PH Y PROTECTION VILLE, MD 20705	SERVICE ROGRAM OFFICE	EXHIBIT C (BENTGRASS)
	•	Bl	SCRIPTION OF VENTGRASS grostis spp.)	ARIETY	
NAME OF API	PLICANT(S)	· · · · · · · · · · · · · · · · · · ·	TEMPORAR	Y DESIGNATION	VARIETY NAME
M.C. Er	gelke/Texas Agricult	ural Experime Statio	ent Pick S	lyn 96 – 2	962
Texas A 17360 C Dallas,	eet and No., or R.F.D. No., City, & M Research & Extoric Road TX 75252-6499	ctension Ce	nter		FOR OFFICIAL USE ONLY PVPO NUMBER Use leading zeroes when necessary
Dertinent compa	Turito trial and evaluation data.	OMPARISON VA	RIETIES FOR US 3 = Highland 7 = Astra	E BELOW 4 = Sea	side er (Please Specify):
I. SPECII			, I wild		renshaw
	1 = Colonial (browntop) A. ten 3 = Velvet A. canina ssp. canin 5 = Red Top A. gigantea		Creeping A. stolonij Brown Bent A. cani	fera (A. palustris) na ssp. montana	
. ADAP	TATION $(0 = Not Tested, 1 = $	fot Adapted, 2 = Ad	dapted)		
[2]	Northeast 2 So	utheast 2	North Central	2 Pacific	N W
0	Other (Please Specify):	ئىبىل ئىبىل			, 11. W.
. MATU	RITY (At first anthesis): Use cor	mparison varieties			
02	Days earlier than	Ţ.	COMPARISO	N VARIETY	
	Maturity the same as	<u> </u>	COMPARISO	N VARIETY	
04	Days later than		COMPARISO	N VARIETY	
. HEIGH	Γ (Average of longest 10 shoots	from soil surface	to top of head)		
0 46	cm Height (at maturity)	ייייייייייייייייייייייייייייייייייייייי	horter than	5 сомр	ARISON VARIETY

cm Taller than

Height the same as 9 COMPARISON VARIETY

COMPARISON VARIETY

	<u>0</u> 0 2 % Pr	strate 000 Pecumbent 098 % Geniculate 700 % Erect
6.	VEGETATIV	REPRODUCTION
	Rhizomes: Stolons:	1 = Absent
	do %Rh	comes 1 0 0 % Stolons
7.	LEAF BLADE	
	Color:	1 = Yellowish Green (Cohansey) 2 = Light Green (Washington) 3 = Green (Exeter) 4 = Dark Green (Kingstown, Tracenta) 5 = Bluish Green (Highland) 6 = Other (Please Specify):
	Texture: (fineness)	1 = Very Fine (Kingstown) 2 = Fine (Exeter) 3 = Medium Fine (Astoria) 4 = Medium (Seaside) 5 = Medium Coarse (Virgina) 6 = Coarse (Vermont)
	Stoma	d density of upper leaf surface 6 = Coarse (Vermont)
	Lower Surface:	
	Upper Surface:	
	Margins:	70 Rough
-		70 100 agri
	(2.5mm)	4 COMPARISON VARIETY
	vege	ative leaf? Width same as 9 COMPARISON VARIETY
		mm Wider than COMPARISON VARIETY
	2 4 mm W	th (Flag Leaves) 4 2 cm Length (Flag Leaves)
8.	LEAF SHEATH	
	Anthocyanin:	1 = Absent 2 = Present 5 0 % Red Sheaths
9.	LIGULE (lower	nd middle leaves)
	Shape at Apex:	4 0 % Acute 6 0 % Rounded % Truncate
		% Other (Please Specify):
	Pubescence:	I 0 0 % Glabrous % Pubescent
	Margins:	110 % Entire 90 % Toothed
		% Other (Please Specify):
	mm Len	
10.	LEMMA	
	Shape:	9 3 % Lanceolate 7 % Ovate

, 10.	, LEIVINA (Con	ппиеа)		•
4	- 4	11 % 0();	% Other (Please Speci	<u>) </u>
•	4 mm W	7idth 1 • 47mm	mm Length (Exclusive of awn)	
	Color:	7 % Buff	93 % Silvery	
		% Other (Pleas	se Specify):	
	Surface:	98%Glossy	2 % Dull	
	Texture:	100 % Smooth	% Punctate	
	Pubescence:	100 % Glabrous	% Sparse	
		% Copious		
	Basal Hairs:	100 % Absent	% Few	
		0 % Many	% Short	
		0 % Long	% Appressed	
		0 % Ascending	% Spreading	
	Awns:	100 % Absent	0 % Few	
		0 % Many	% Awn-pointed	
		0 % Short	0 % Long	
	•	0 % Straight	0 % Geniculate	
	Awn Insertion on Lemma:	0 % Basal	0 % Middle	
		0 % Distal		
11.	PANICLE			
	Type (in anthesis):	0 9 1 % Open	OO9 % Compact	
	Anthocyanin:	3 7 % Absent	6 3 % Present	
	Branches in Anthesis:	008 % Appressed	0 9 2 % Ascending	
	Anuicsis.	OOO % Spreading		•
	Branches in Fruit:	040 % Appressed	0 6 0 % Ascending	
	rruit;	OOO % Spreading		
	Branch Surface: Pahicle le	0 0 9 % Smooth ngth-8.6 cm	0 9 1 % Rough	
12.	SEED			
	Grams po	er 1000 seed		
13.	SPRING GREEN	UP		
	2 $1 = Early$	(Exeter) 2 = Medium	1 (Astoria) 3 = Late (Kingstown)	

14.	' ELAATE	COUNTED	I AL KE	919 I WN	CE	(n = Mot)	l'ested,	1 = Susc	epuble, 2	? = Kesi	stant)
<i>y</i>	. 2	Cold	Ō	Heat	3	Drought	ৃত	Shade	0	Othe	lease Specify):
15.	DISEA	SE RESIS	TANCI	3		(0 = Not	Tested,	1 = Susc	eptible, 2	2 = Resi	stant)
	0	Red Lea	f Spot (A	Drechslei	ra erythro	ospila)			0	Helmi	inthosporium Leaf Spot (Bipolaris sorokiniana
	0	Melting	Out (Dr	echslera	poae (He	lminthospo	rium ve	agans))	1	Dollar	. Spot (Sclerotinia homoecarpa)
	O	Pythium	Blight	(P. aphar	ii <i>dermat</i> u	m)			Ď	Pythiu	ım Blight (P. ultimum)
	O	Fusarium	n Blight	(F. rosei	um)				O	Fusari	ium Blight (F. tricinctum)
	3	Fusariun	n Patch	(Pink Sne	ow Mold)	(F. nivale)		0	Powde	ery Mildew (Erysiphe graminis)
	3	Ophiobo	lus Patc	h (O. gra	mnis)				0	Stripe	Smut (Ustilago striiformis)
	Ō	Copper 8	Spot (Gl	oeocerco	spora soi	rghi)			.2	Typhu	ala Blight (Snow Scald) (T. incarnata)
	0	Red Thr	ad (Cor	rticium fü	ciforme)				3	Brown	n Patch (Rhizoctonia solani)
	0	Stem Ru	st (Pucc	inia gran	ninis)		•	`	[ق	Crowi	1 Rust (P. coronata)
	0	Leaf Rus	t (P. po	ae-nemoi	ralis)				0	Other	(Please Specify):
16.	INSEC	resist	ANCE			(0 = Not 7	Γested,	1 = Susce	eptible, 2	= Resi	stant)
	0	European	ı Chafer	(Amphin	nallon so	lstitialis)			0	Garde	n Chafer (<i>Phyllopertha horticola</i>)
	0	Chinch E	dug (<i>Blis</i>	ssus insui	laris)				0	Webw	orm (Crambus spp.)
	۵	Armywo	rm (Cut	worm) (F	eudoleti 'seudoleti	ia unipunci	ta)		O	Other	(Please Specify):
											

17. GIVE VARIETY(S) THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY: For the following characteristics indicate the degree of resemblance (D.R.) with one of the following numbers: 1 = submitted variety is less than, lighter, or inferior to similar variety, 2 = Same as, 3 = More than, darker or superior, etc.

Character	Similar Variety	D.R.	Character	Similar Variety	D.R.
Growth Habit	Crenshaw	2	Leaf Color	Creinshaw	2
Awn Length			Panicle Type	Crenshaw	2
Seed Weight			Turf Fineness	Crenshaw	2
Cold Resistance	Penncross	2	Heat Resistance	not tested	0
Drought Resistance	Penncross	2	Shade Resistance	not tested	ō
Brown Patch	Crenshaw	2	Panicle leng		<u>' </u>

18. COMMENTS

Morphological characters measured from a spaced planted trial of individuals/cultivars in the 2000 growing season. Trial was located at Pickseed West, Inc. research facility, Albany, OR. Physiological traits were scored from NTEP no. 01-2, National Bentgrass Test - 1998, Putting Green.

Exhibit D

Additional Description of "962 Creeping Bentgrass"

'962' has been noted for its ability to maintain a good genetic color during stressful environmental conditions. 962 was included in the 1998 NTEP trials which were planted in the fall of 1998 in replicated trials at 24 locations and under various management regimes. Data taken from the 1998 National Bentgrass (Putting Green) Test Final Report NTEP No. 03-8 (Table 7 attached) showed that 962 had darker green genetic color than 'Crenshaw', although not statistically different. Below is a picture of 962 taken February 19 2003 at Garland, Texas.



TABLE T.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS GROWN ON A GREEN 1/ 1999-2002 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	ALI AZI IAI	IL1 K	S1 KY1	'1 KY2	2 MA1	E E	MI1 MC	MO1 MT1	F NC1	ZE 1	NJ1 NY1 OK1 PA1	RII RIZ SC2 TX1	171	VA1 WA3 WA4 WI1 WI2	MEAN
PENN A-2	6.6 7.0 6.7	6.0 6		7 8.0	7.7 0	7.16	6	9	9 7	0 1	•	11 11 11 11 11 11 11 11 11 11 11 11 11	,		
SYN 96-2	6.8 6.5 7.4	5.8	3 7.9								0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		4.	6.8 6.7 6.6	
F-93		6.1 7							9 1	: (7.0 7.8 7.	7.38	6	7.16.7	ø
PST-A2E		9 0.9			יש נ	. 4					6.7 6.7	6.7	9.0	6.67.3	
SRX 1NJH) L					4.	6.7 7.4	8.0 7.8	2.0	7.3	6.8
PEKN G-1		- u			0		7.0			9 1	.3 7.0 7.5	7.3 8.2	4.6		8.9
PENN A-4		, 4				? ;				9.	7.0 7.3	7.3 7.7	ω.	7.0	
SHX 18PAA										7.4	7.0 7.1	7.0 7.7	5.0	6.7 6.8 7.0 6.4 6.2	6.7
BRIGHTON (SRX 1120)	- 00						6.0			ه ۱ ت	2.0	7.7 8.0	4.8	7.08.0	
SR 1119							0.0		n 1		7.0 7.3	7.7 8.2 6.	4.8	6.4 7.0	
ISI AP-5	9	6.1				. n		. u		F . 1	7.0 7.2	7.7 8.2	4.7	6.3 7.7 6.1	
PENN A-1	6.0	5.9 7	3 7 8	8 7.6		. 6	6.0 6.2				3.0 0.1 1.1 0.8	5.5 7.7 7.8 7.3		7.2 7.0 6.6	
BAR CB 8US3	6.4 6.8 6.5	9 9 9				7.1							7	6.8 7.0 6.4 6.	6.7
CRENSHAW	6.3											: 0	4 . 2. c	6.8 7.3 6.2 5.	
PENN G-6	5.8 6.0 6.6	5.6 6				7.3				7.9			• •	6.4 6.3 7.3 6.2 5.9	
ABT-CRB-1	6.3 6.3 7.0	5.8 6				7.0	6.4 5.9			7.7	6.7 7.2	. «	• •	2.0 0.7 5.0	
PICK CB 13-94	6.5 6.5 6.4	5.8 6			3 6.7	7.3	6.4 6.			6.7	7.0 7.3	2 6	, ,	0.4 0.3 0.7	
BENGAL (BAR AS 8FUS2)	6.2 5.5 7.1	5.4 6	3 6.8			7.1	6.6 6.4			7.7	7.0 7.1		, ,	6.0 6.0	
PROVIDENCE	6.3 5.8 6.5	9 0.9			0.8.0	7.0				7	6.7 7.1	7.3.7.8	, ,	0.1 0.3 0.3	
VESPER (PICK MVB)	6.3 5.3 6.7	5.3 6				8.0				5.0	6.3 7.7				
SYN 96-3	5.8 5.8 7.1	5.3 6.				7.1				7.3	6.3 7.1	7 7 8	, ,	7.00000	
CENTURY	6.1 5.5 6.8	5.4 5			8 8.0	7.3	5.8 6.2			7.2	6.3 7.3	6.7 7.5	. 4	0.000	4 .
IMPERIAL	5.5 5.6 7.0	5.3 6.		2 7.1	1 7.3	8.9	5.7 5.8	8 6.4	4 6.7	7.0	6.7 7.3	7.0.7.5	. 4	6.2 6.3 6.3	
SYN 96-1	5.3 5.8 7.3	5.3 5.		7 6.1	1 7.3	7.0	6.1 5.			6.9	6.7 6.9	6 7 7 7		6 6 6 6 6 1	
SR 7200	6.3 5.0 6.3	4.7 6	7 4.1	1 4.6	6 7.7	7.8	6.5 4.8				6.7 7.0 6	8.0.7.3			
BACKSPIN	5.5 5.4 6.6	5.4 6.	.3 6.3	3 6.2	2 7.3	8.9	5.7 5.9				6.7 6.8 5	6.7.7.3		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 0
PENNCROSS	5.3 5.5 6.0	4.9 6.	.0 5.8	8.5.8	8 7.7	7.3 6	.1 5.9	9.5.9		7.2	7.06.95	57776		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
PENNLINKS	6.1 5.3 6.2	4.8 5	7 6.2	2 5.8	8.3	7.2 5	.8 6.0	0 6.3		7.4	6.0 7.0 4	2		7.7 4 7.00	
BAVARIA	4.8 5.0 5.8	5.3 6.	3 4.	1.4.6	5 7.0	9 0.9	9.	8 5.	6.3	5.0	6.23	5.7 7.3 6	8	6.0 4.3 5.4	
LSD VALUE	1.2 0.8 1.0	T.		- C		-	7	•	•	•	4 1 0	•			
C.V. (%)	11.6 7.9 9.8 13.0	•		~			•	7		• •	2.4 0.0 0.7 2.0			0.9 0.8 0.9	
			,								8.8 6.1 9.8	7.5 5.6 9.4	. 2	13.8 8.7 7.7 9.8 9.0	11.3

^{1/} TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. Statistical differences occur when this value is larger than the corresponding LSD Value (LSD 0.05).

^{2/} C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

Source: 1998 National Bentgrass (Putting Green) Test Final Report NTEP No. 03-8.

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions. F	ORM APPROVED - OMB No. 0581-0055
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	O TEMPODADY DEGICALATION	O VADIETY NAME
NAME OF APPLICANT(S) Texas Agricultural Experiment Station	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER Syn 96-2, Pick Syn 96-2, 96-2	3. VARIETY NAME 962
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
Office of the Director, Texas Agricultural Experiment Station 2147 TAMU	(979) 845-4747	(979) 458-4765
College Station, TX 77843-2147	7. PVPO NUMBER 2004 0 1	18
8. Does the applicant own all rights to the variety? Mark an "X" in the	appropriate block. If no, please explai	n. YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. ba		<u> </u>
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is (a YES b. If the original rights to variety were owned by a company(ies),	NO If no, give name of count	ry sed company?
11. Additional explanation on ownership (Trace ownership from origin The original breeder of this variety, Dr. Milton C. Engelke, is an edeveloped this variety in the course of his duties at TAES. TAES developed by its employees in the course of their duties are owned.	employee of the Texas Agricultural Exp policy and handbook manual provide t	periment Station (TAES), and he that all germplasm and varieties
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not license	ees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that pe national of a country which affords similar protection to nationals of 		
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a co- genus and species.		
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who dire Act for definitions.	ected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection
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